CLAIMS

1. A LED device for directing light including:

a LED;

a light reflecting cavity in which the LED resides;

a first encapsulant that at least partially encapsulates the LED and resides within the light reflecting cavity;

a second encapsulant residing above the first encapsulant;

a first device terminal;

a first connection between the first device terminal and the LED;

a second device terminal;

a second connection between the second device terminal and the LED;

and

wherein the first encapsulant is partially comprised of a first percentage of a first light reflecting substance.

2. A LED device for directing light according to claim 1 wherein a side surface of the LED is at least partially encapsulated by the first encapsulant.

3. A LED device for directing light according to claim 2 wherein a side surface of the LED is completely encapsulated by the first encapsulant.

4. A LED device for directing light according to claim 3 wherein the upper surface of the first encapsulant resides above an upper surface of the LED.

5. A LED device for directing light according to claim 1 wherein the first encapsulant fills the light reflecting cavity to an upper perimeter of the light reflecting cavity.

6. A LED device for directing light according to claim 1 wherein the second encapsulant is partially comprised of a second percentage of a second light reflecting substance.

7. A LED device for directing light according to claim 6 wherein the second percentage is less than the first percentage.

8. A LED device for directing light according to claim 7 wherein the first percentage is less than approximately one third of the second percentage.

9. A LED device for directing light according to claim 8 wherein the first percentage is less than approximately one half of the second percentage.

10. A LED device for directing light according to claim 1 wherein the first percentage is between 3% and 40%.

11. A LED device for directing light according to claim 6 wherein the first percentage is between 3% and 40%.

12. A LED device for directing light according to claim 1 wherein the first percentage is between 3% and 10%.

13. A LED device for directing light according to claim 6 wherein the first percentage is between 3% and 10%.

14. A method for constructing a LED device including:

mounting a LED into a light reflecting cavity;

connecting the LED to a first device terminal and a second device terminal;

at least partially filling the light reflecting cavity with a first encapsulant which is at least partially comprised of a first percentage of a first light reflecting substance; and

placing a second encapsulant above the first encapsulant.

15. A method for constructing a LED device according to claim 14 wherein the second encapsulant is partially comprised of a second percentage of a second light reflecting substance.

16. A method for constructing a LED device according to claim 15 wherein the second percentage is less than the first percentage.